

FIG. 1

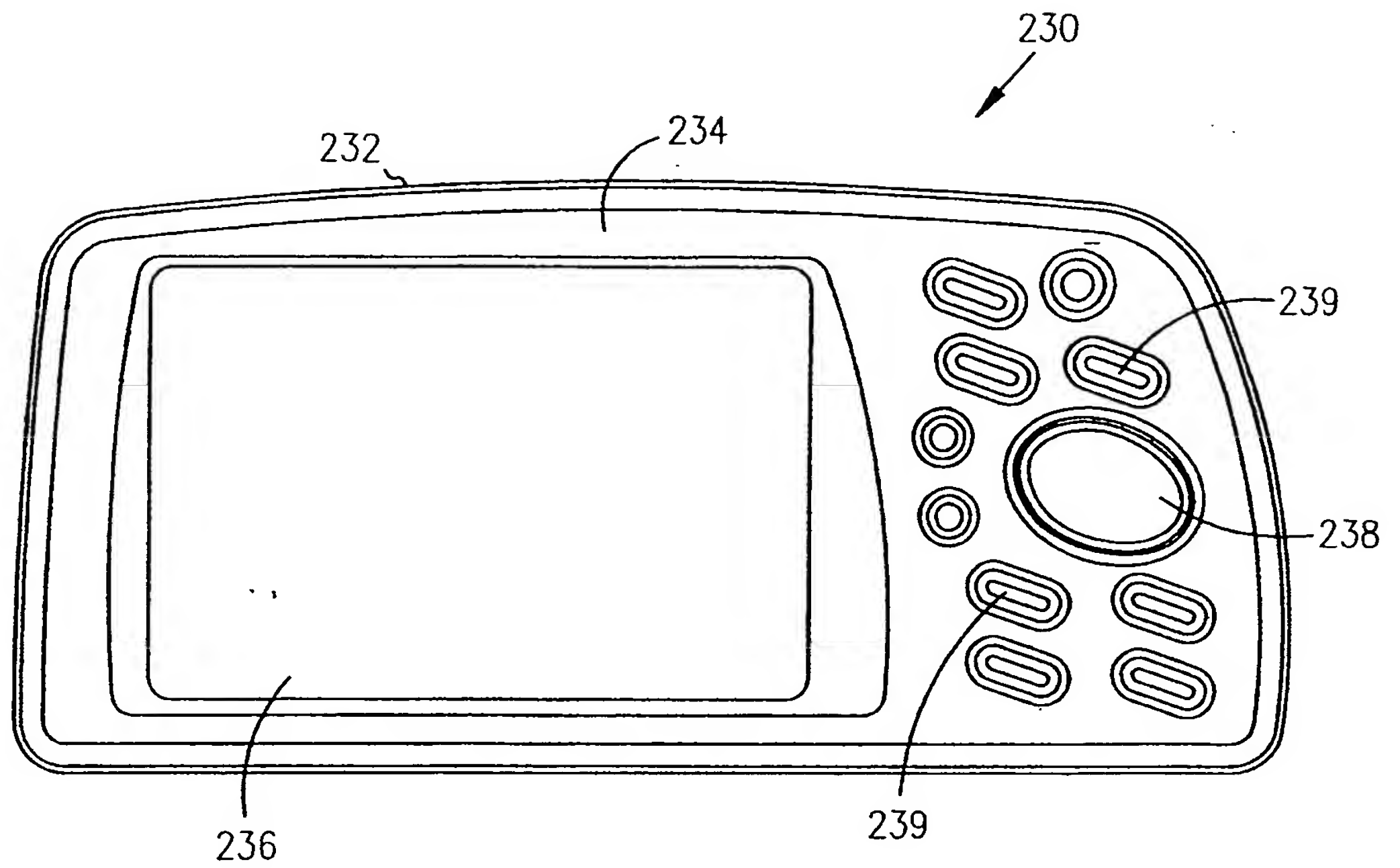


FIG. 2A

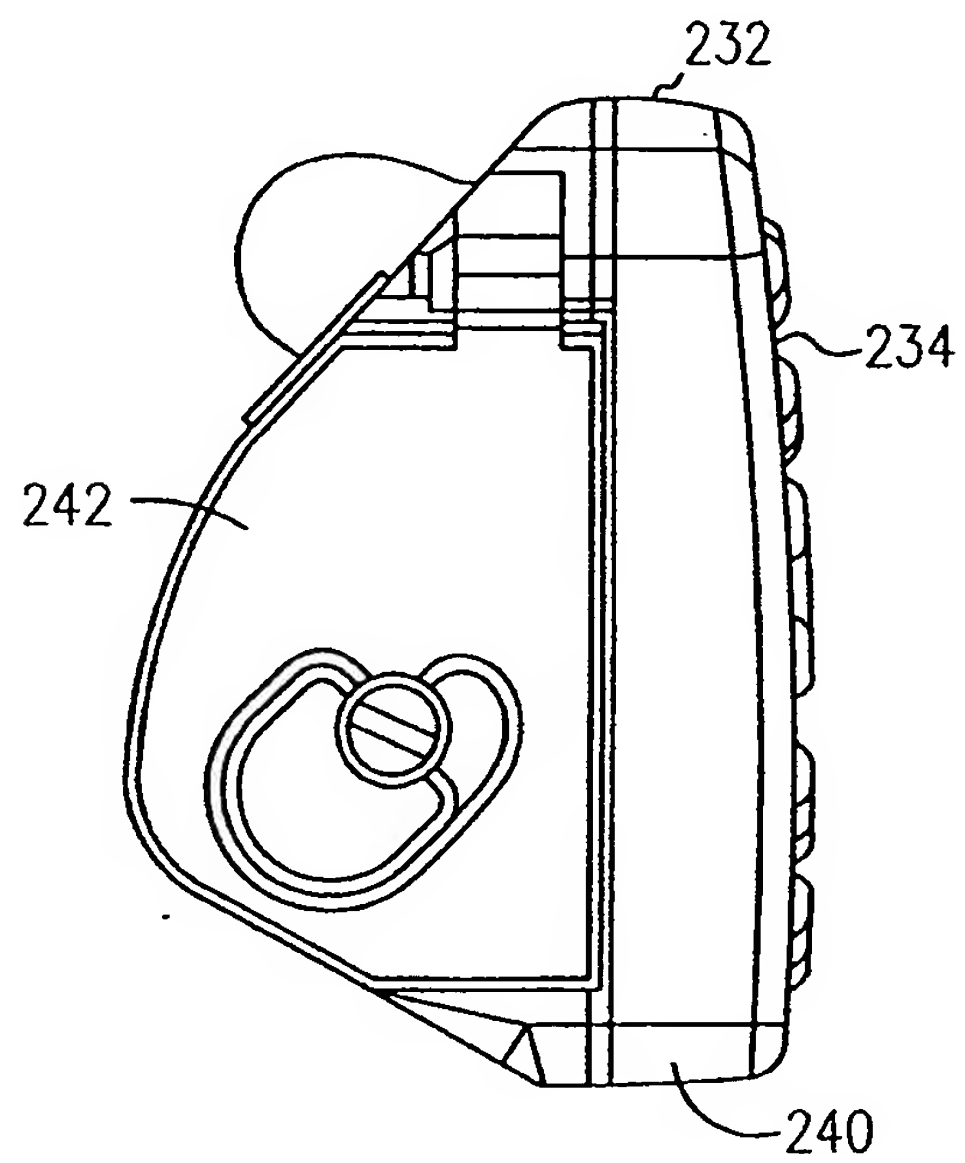


FIG. 2B

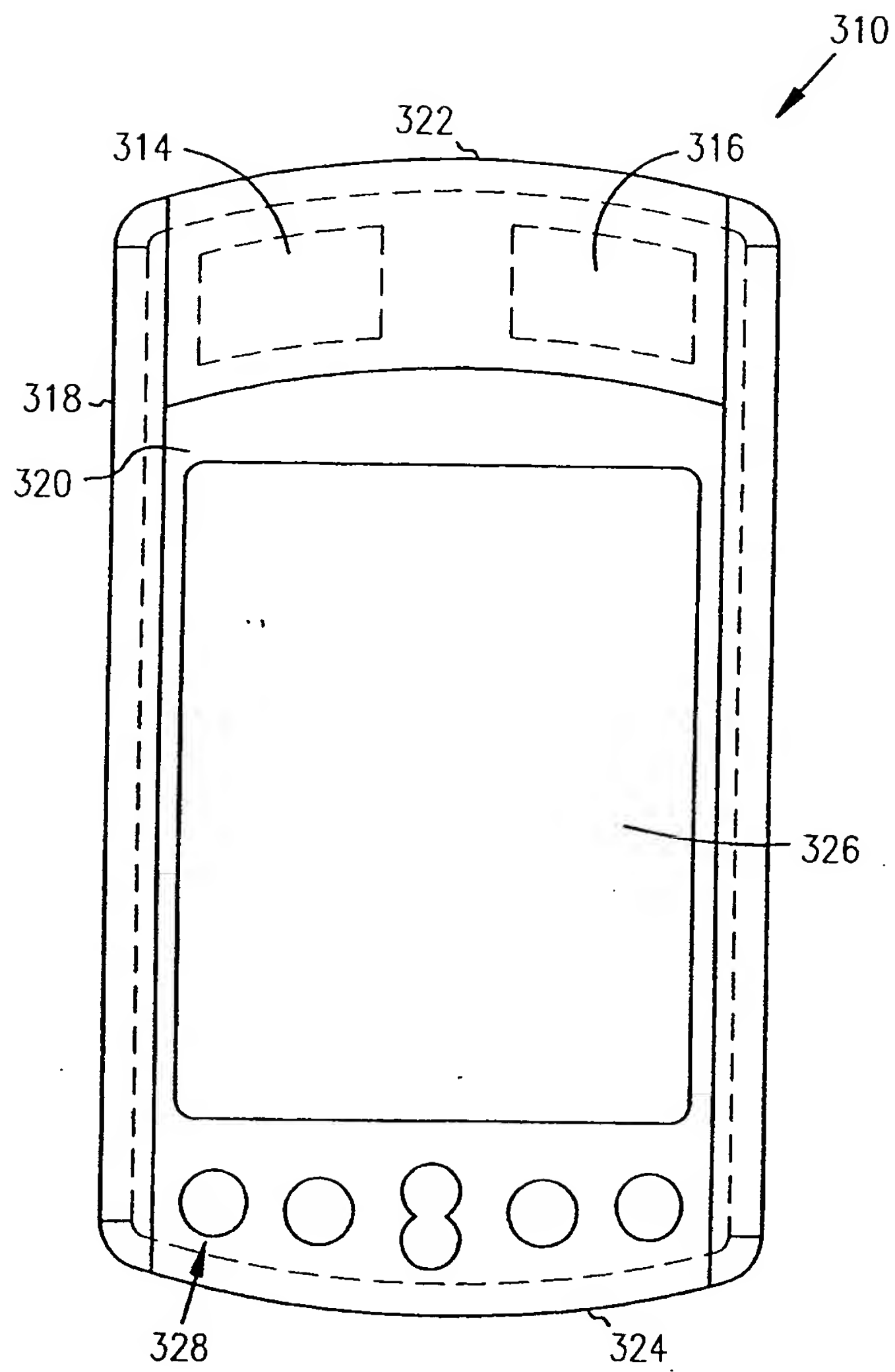


FIG. 3A

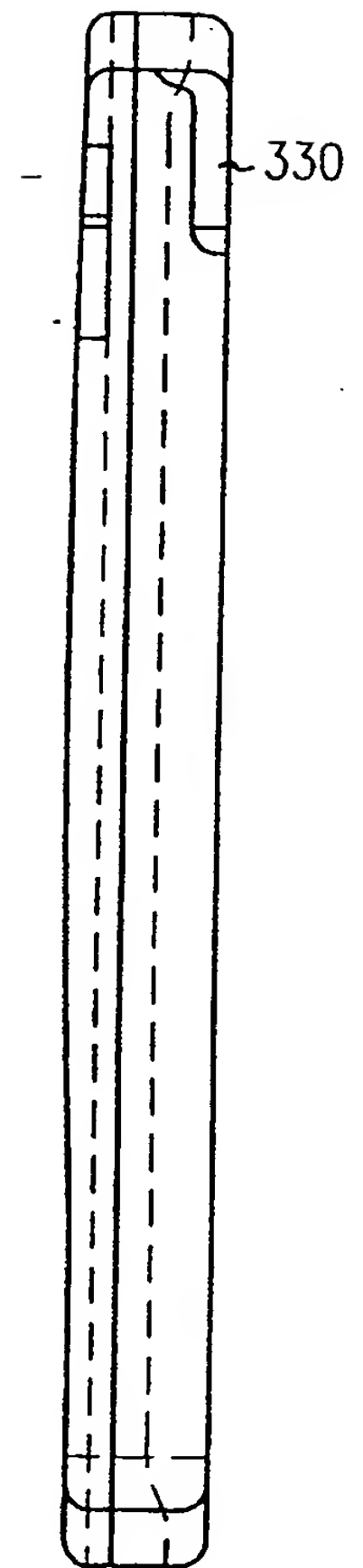


FIG. 3B

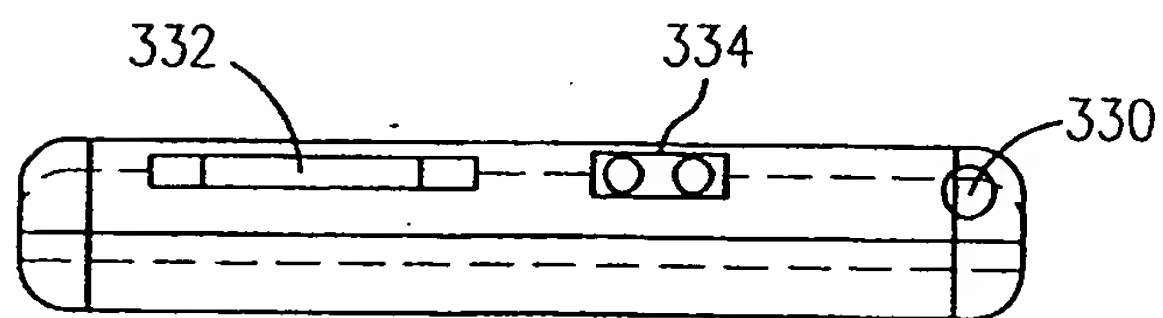


FIG. 3C

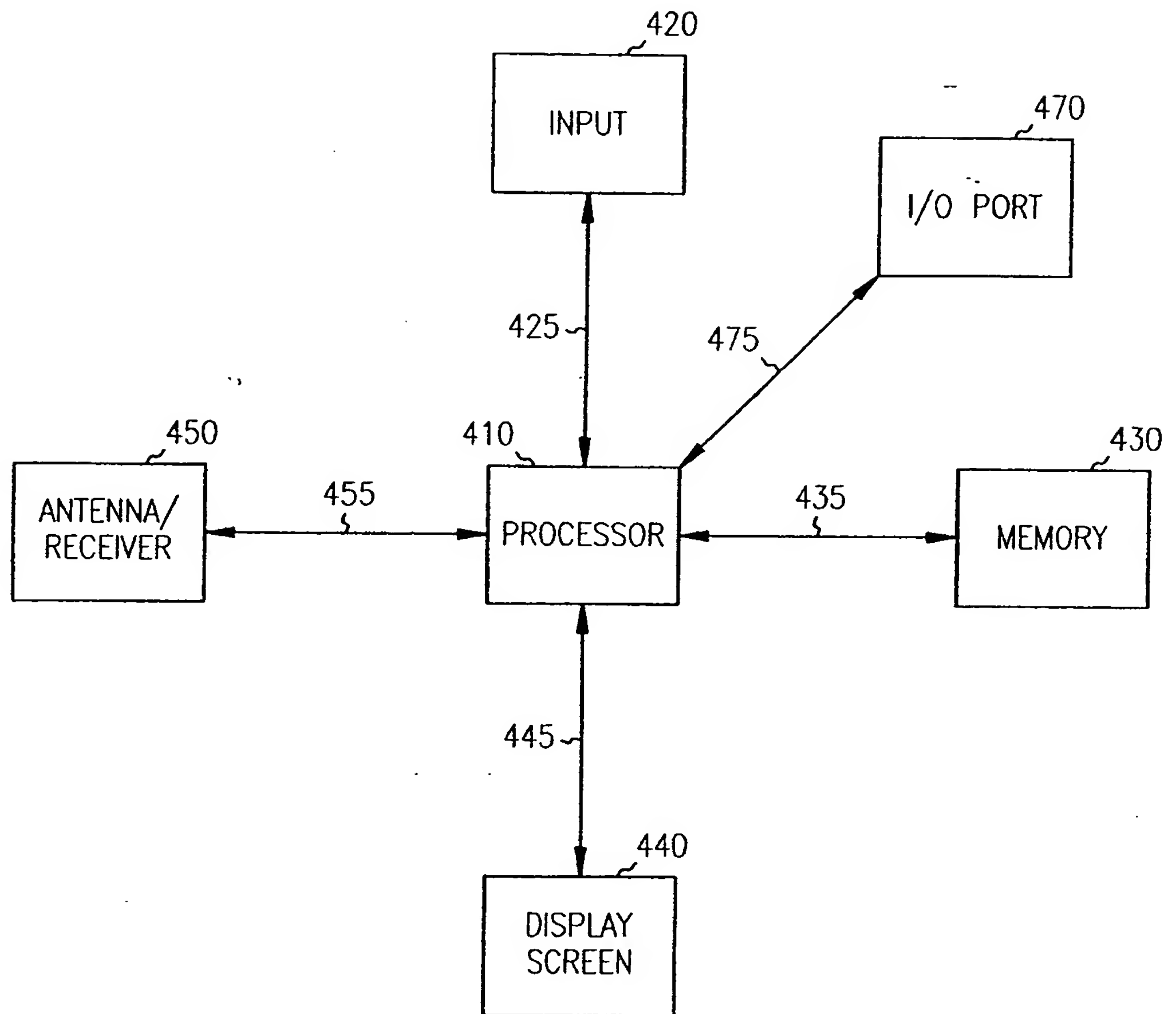


FIG. 4A

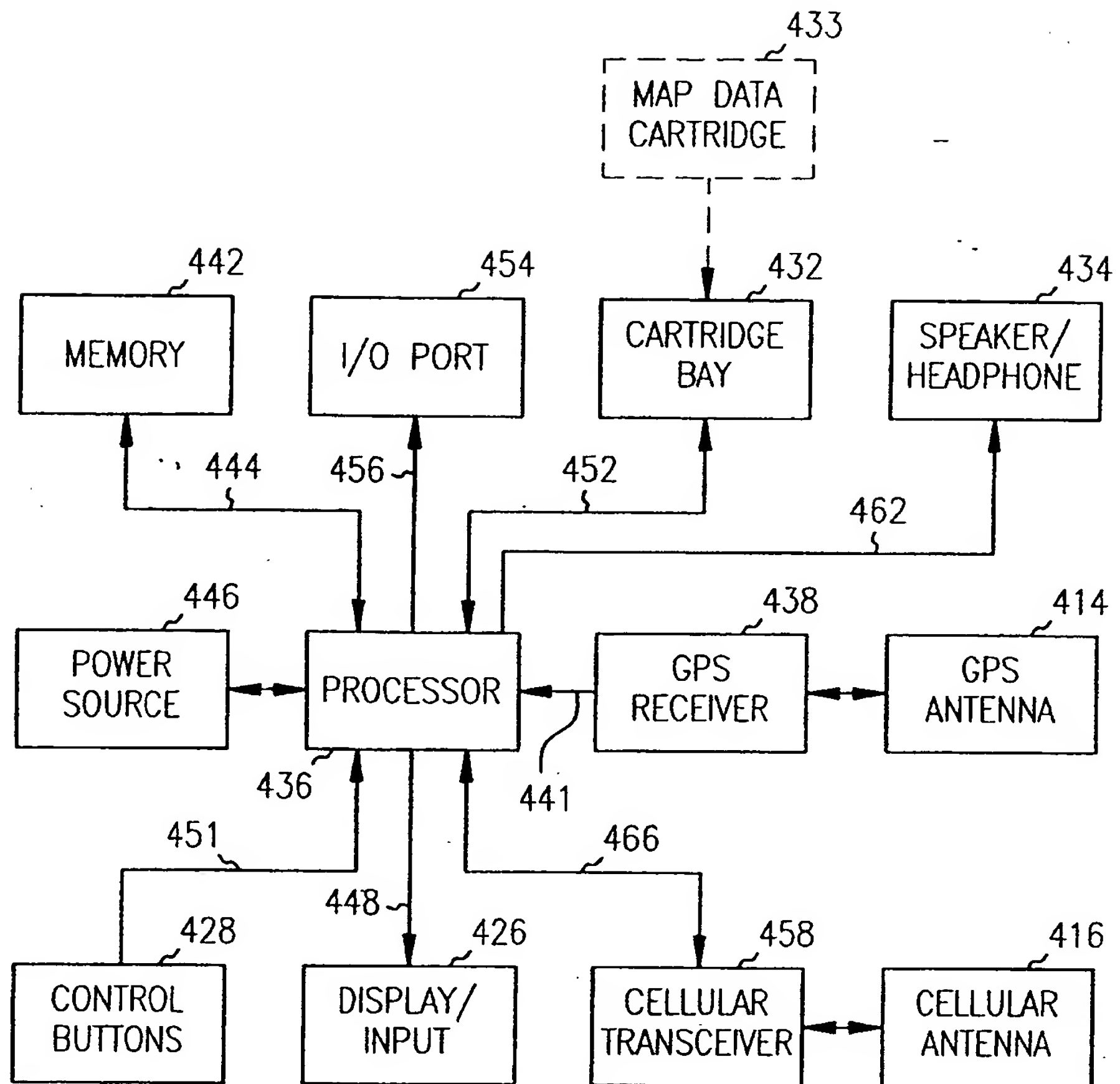


FIG. 4B

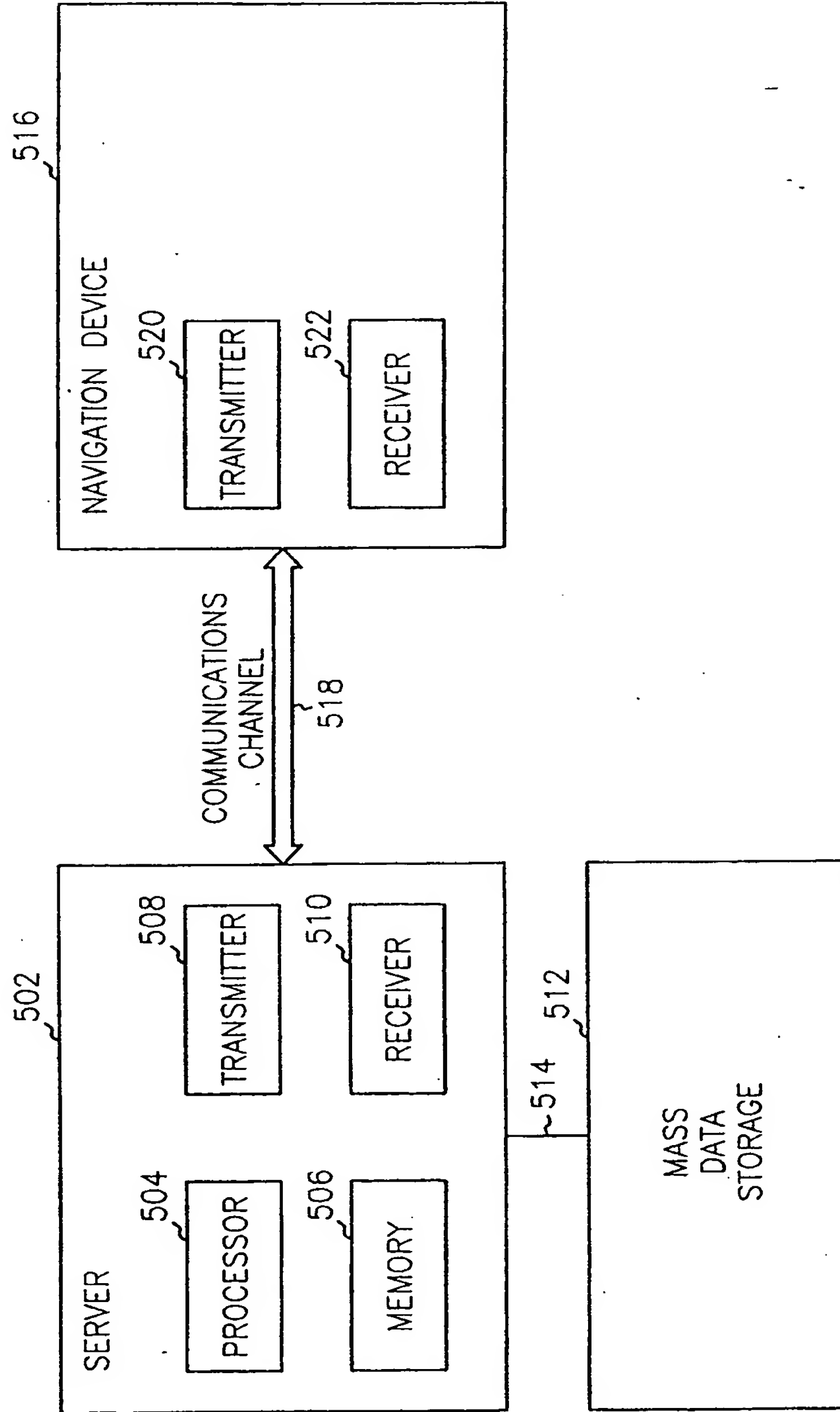


FIG. 5

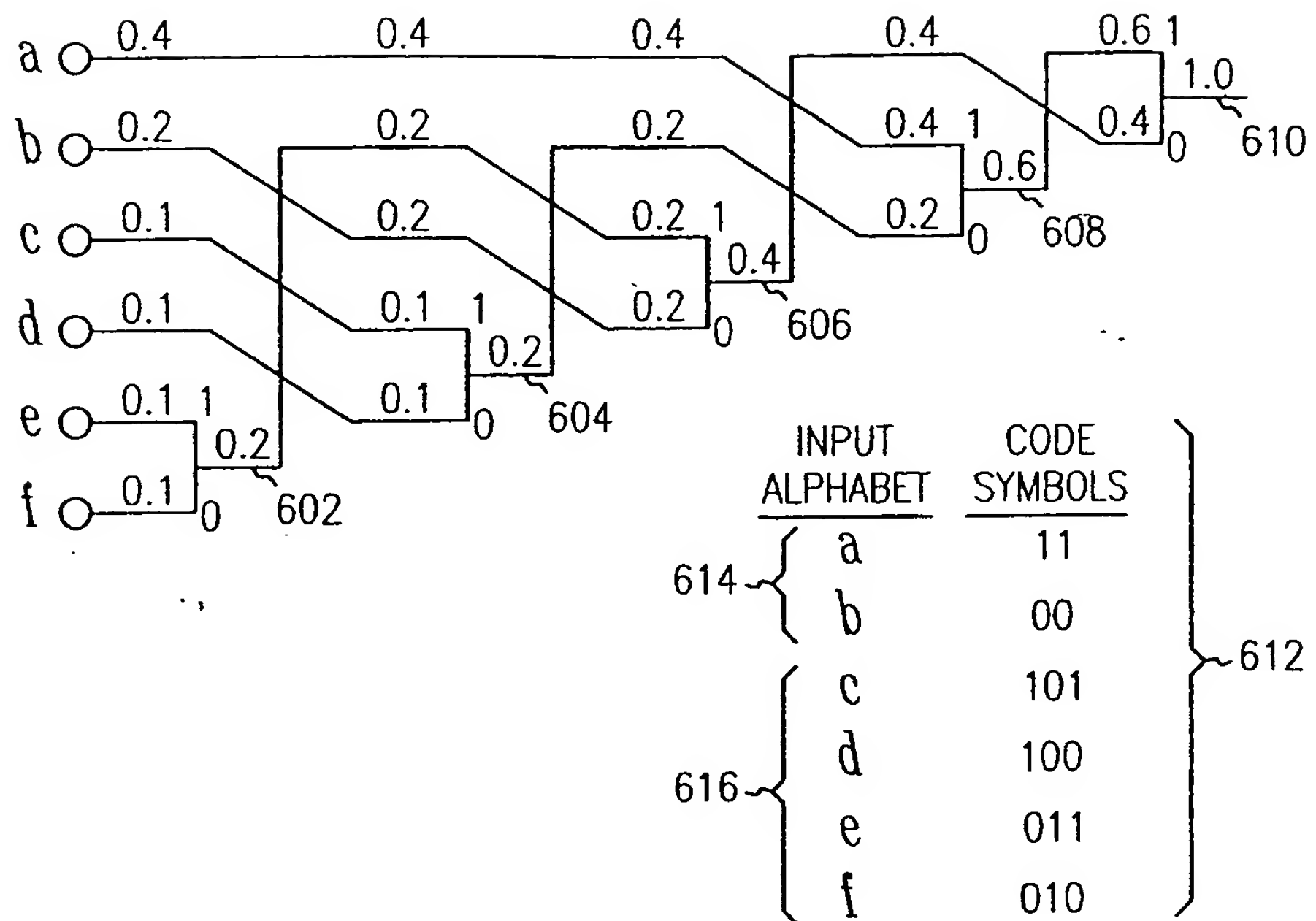


FIG. 6
(PRIOR ART)

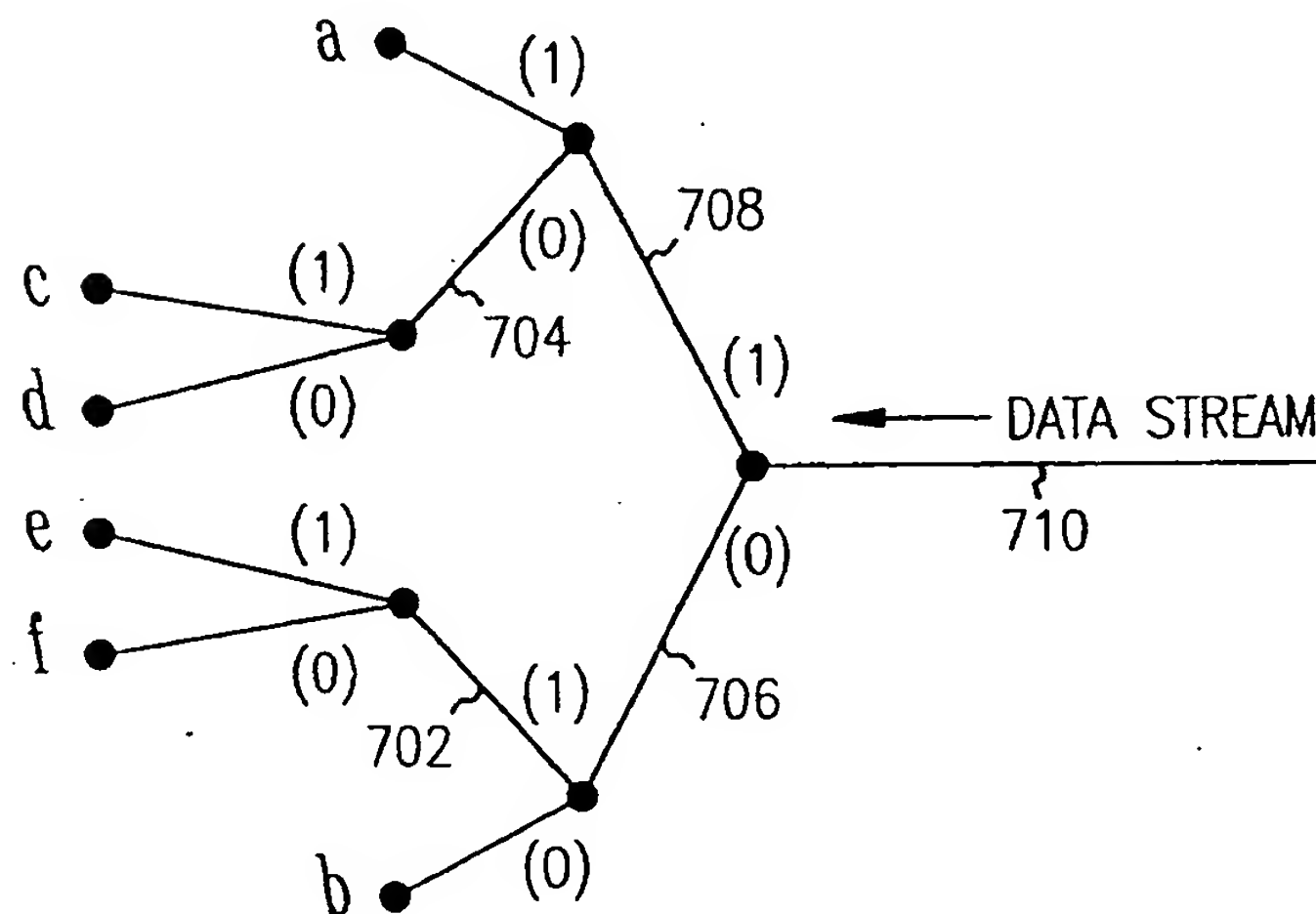


FIG. 7
(PRIOR ART)

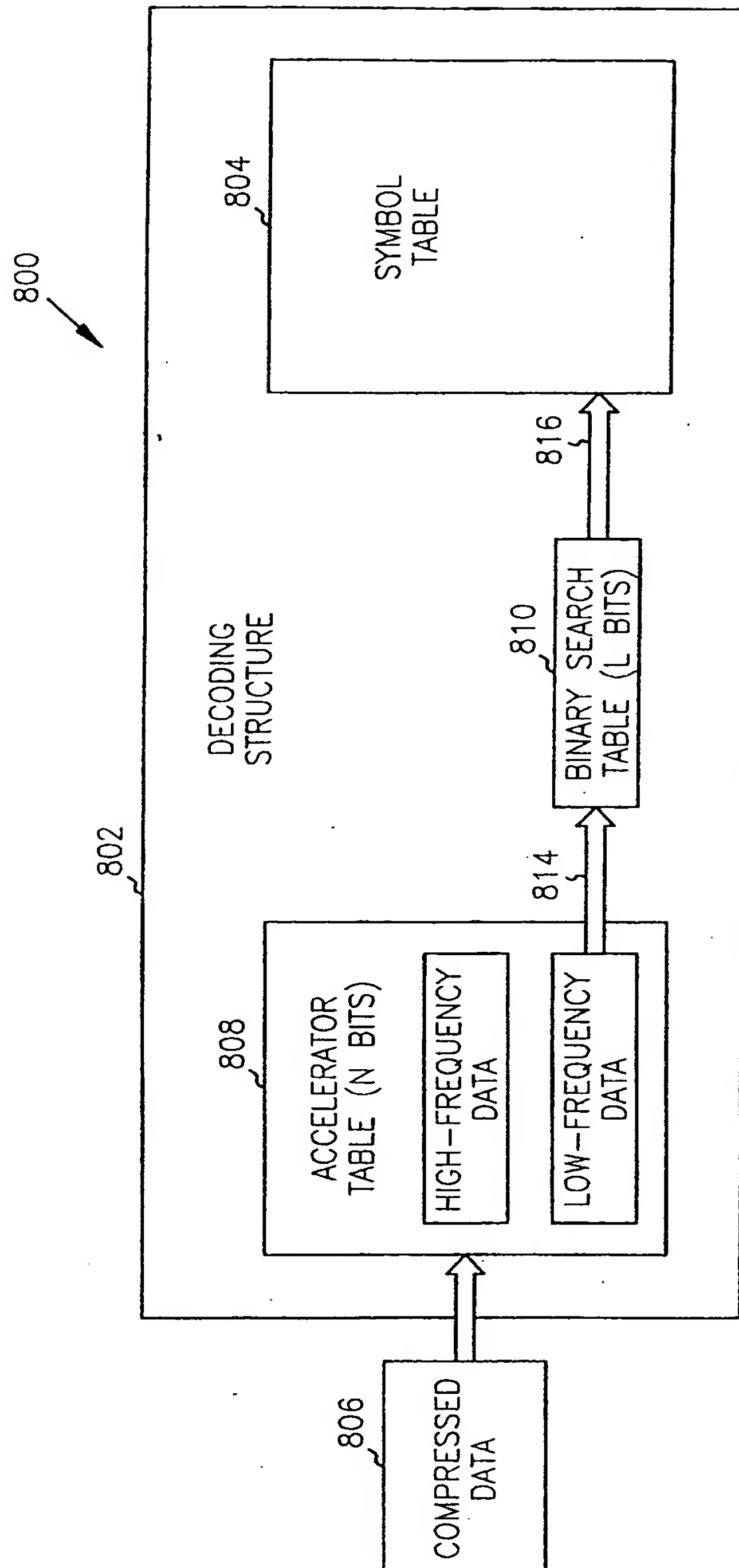


FIG. 8

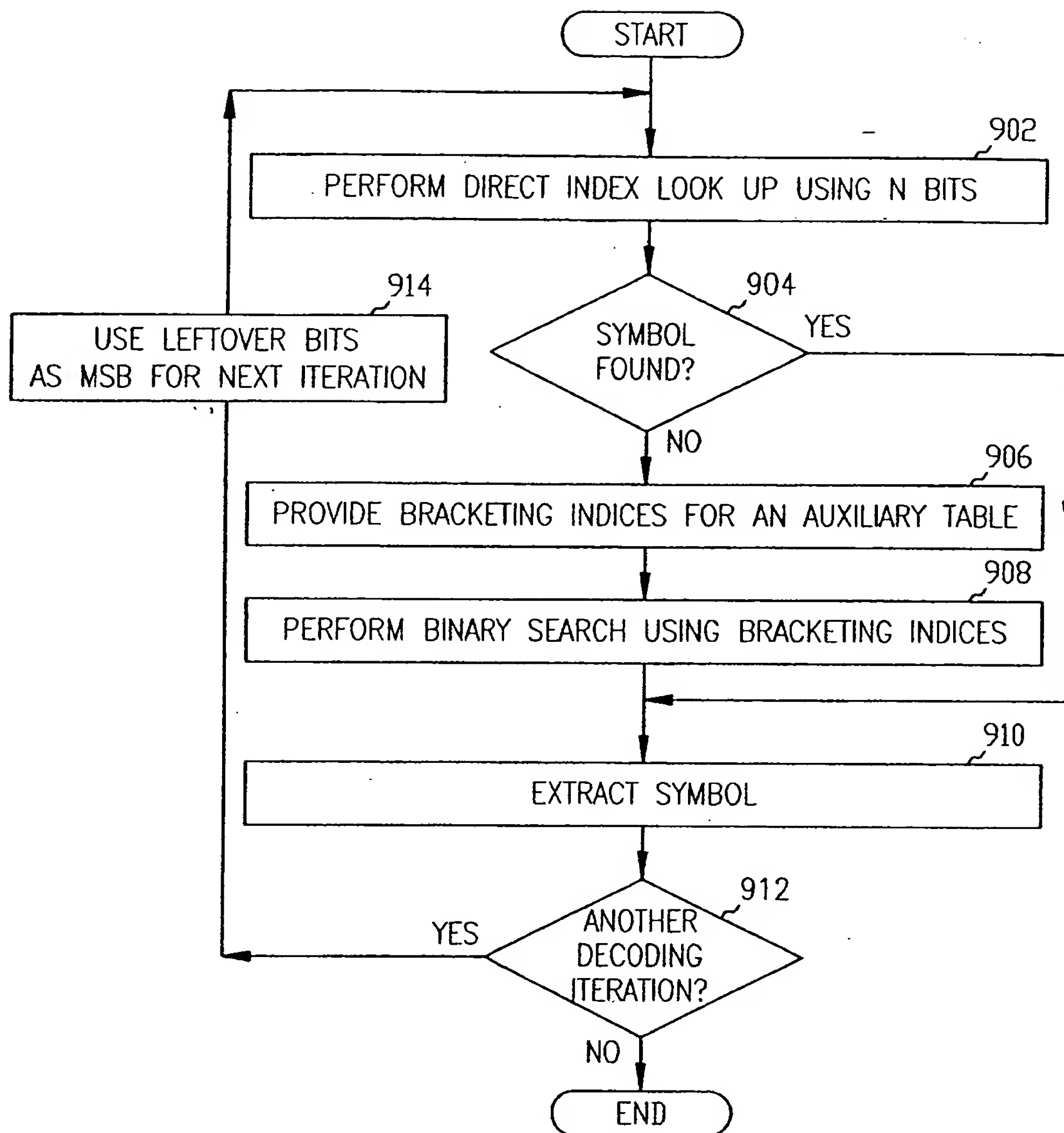


FIG. 9

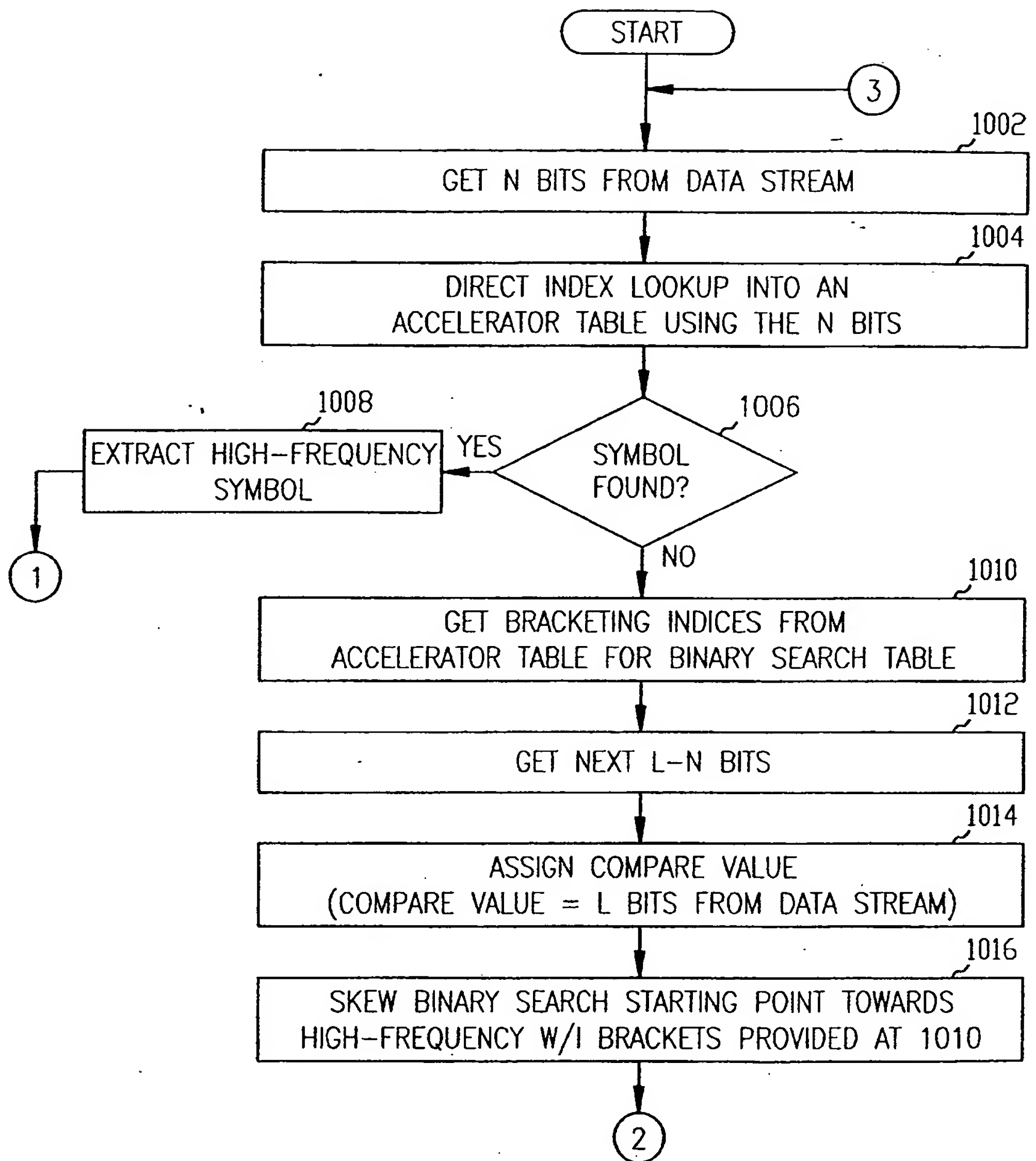


FIG. 10A

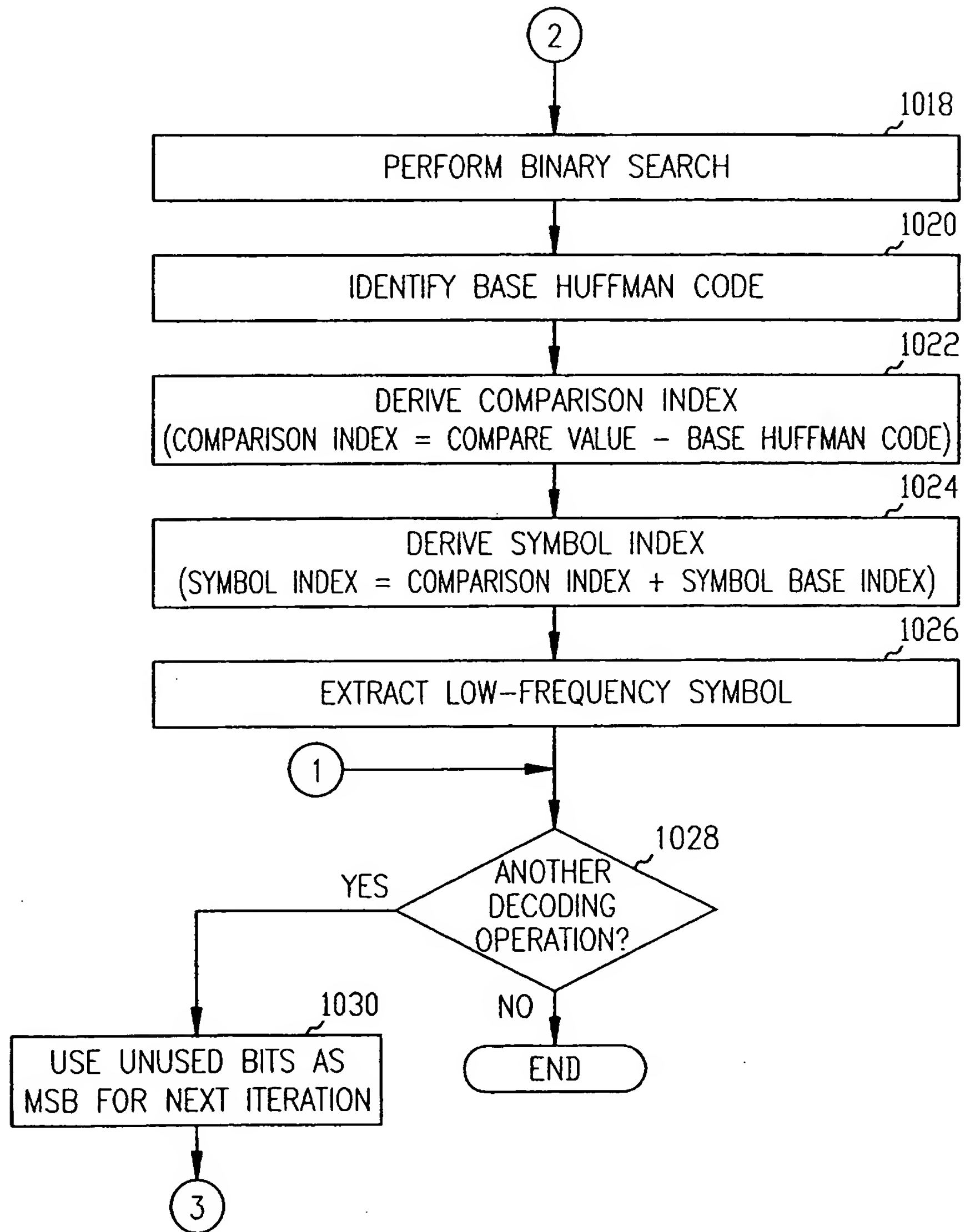


FIG. 10B

ASSIGNED CANONICAL HUFFMAN CODE																BIT LENGTH	SYMBOL	SYMBOL INDEX
MSB				LSB														
1102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0x01	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	-	0xD	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		','	2
	0	0	0	0	0	0	0	0	0	0	0	0	1	1			','	3
1102	0	0	0	0	0	0	0	0	0	0	0	0	0	1		14	0x02	4
1102	0	0	0	0	0	0	0	0	0	0	0	0	1			13	','	5
1102	0	0	0	0	0	0	0	0	0	0	0	1				12	0x03	6
1102	0	0	0	0	0	0	0	0	0	0	0	1				11	','	7
	0	0	0	0	0	0	0	0	0	0	1	0					'Q'	8
	0	0	0	0	0	0	0	0	0	0	1	1					'X'	9
1102	0	0	0	0	0	0	0	0	0	0	0	0	1	0		10	'&'	10
1102	0	0	0	0	0	0	0	0	0	0	0	0	1	1			'Z'	11
1102	0	0	0	0	0	0	0	0	0	0	0	0	0	0		9	'''	12
1102	0	0	0	0	0	0	0	0	0	0	0	1	1				'J'	13

FIG. 11A

ASSIGNED CANONICAL HUFFMAN CODE													SYMBOL INDEX		
MSB				LSB								BIT LENGTH		SYMBOL	
0	0	0	0	0	0	0	0	1	0						8
0	0	0	0	0	0	0	0	1	1					'3'	15
0	0	0	0	0	0	0	0	1	0	0				'4'	16
0	0	0	0	0	0	0	0	1	0	1				'7'	17
0	0	0	0	0	0	0	0	1	1	0				'8'	18
0	0	0	0	0	0	0	0	1	1	1				'9'	19
0	0	0	0	0	0	0	1	0	0				7	'1'	20
0	0	0	0	0	0	0	1	0	1					'2'	21
0	0	0	0	0	0	0	1	1	0					'5'	22
0	0	0	0	0	0	1	1	1	1					'6'	23
0	0	0	0	1		0	0	0	0					'F'	24
0	0	0	0	1		0	0	1						'Y'	25
0	0	0	1			0	1						6	0x20	26
0	0	0	1			1	0							'B'	27
0	0	1	1			1	1							'G'	28
0	0	1	0			0	0							'H'	29
0	0	1	0			0	1							'M'	30
0	0	1	0			1	0							'P'	31
0	0	1	0			1	1							'U'	32
0	0	1	1			0	0							'V'	33
0	0	1	1			0	1							'W'	34

FIG. 11B

ASSIGNED CANONICAL HUFFMAN CODE													SYMBOL INDEX
MSB						LSB						BIT LENGTH	SYMBOL
0	0	1	1	1	1							5	0x1B
0	1	0	0		0								'C'
0	1	0	0		1								'I'
0	1	0	1		0								'K'
0	1	0	1		1								'S'
0	1	1	0									4	0x1C
0	1	1	1										'A'
1	0	0	0										'D'
1	0	0	1										'E'
1	0	1	0										'L'
1	0	1	1										'N'
1	1	0	0										'O'
1	1	0	1										'R'
1	1	1	0										'T'
1	1	1	1										0x00

1102

1102

FIG. 11C

TABLE INDEX	COMPARE VALUE																BITS USED	SYMBOL BASE INDEX
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	14	4
2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	13	5
3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	12	6
4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	11	7
5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	10	10
6	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9	12
7	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	8	14
8	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7	20
9	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	6	26
10	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5	35
11	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	40

FIG. 12

TABLE INDEX	# BITS USED	SYMBOL	SEARCH TABLE START INDEX	SEARCH TABLE END INDEX
00000	5		0	7
00001	5		8	8
00010	5		8	9
00011	5		9	9
00100	5		9	9
00101	5		9	9
00110	5		9	9
00111	5	0x1B		
01000	5	'C'		
01001	5	'I'		
01010	5	'K'		
01011	5	'S'		
01100	4	0x1C		
01101	4	0x1C		
01110	4	'A'		
01111	4	'A'		
10000	4	'D'		
10001	4	'D'		
10010	4	'E'		
10011	4	'E'		
10100	4	'L'		
10101	4	'L'		
10110	4	'N'		
10111	4	'N'		
11000	4	'O'		
11001	4	'O'		
11010	4	'R'		
11011	4	'R'		
11100	4	'T'		
11101	4	'T'		
11110	4	0x0		
11111	4	0x0		

FIG. 13